

**Final (Amendment 1)**

**Conventional Explosives Safety Submission**

**Ordnance and Explosives (OE) Removal Action**

**for the**

**Choccolocco Area**

**U.S. Fish and Wildlife Land Transfer**

**of**

**Fort McClellan, Alabama**

Task Order 0020

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## APPENDIX

Appendix A	Calculation Sheets for MPMs
Appendix B	Introduction and Enclosure 1 of the LUCIP

## 1.0 INTRODUCTION

1.3 Amendment 1 to this ESS is provided in response to the re-sectoring of the FWS-1H area into 3 separate sectors. The reason for re-sectoring was to help minimize the impact of the applicable exclusion zones to off post inhabited areas. The data collected during the EE/CA process was examined in greater detail which has allowed the FWS-1H area to be re-sectored into 3 smaller sectors (FWS-1Ha, FWS-1Hb and FWS-1Hc). This amendment greatly reduces the area that will require engineering controls, an approved 1/600 ruling or evacuation of all personnel in order to perform the OE removal.

## 3.0 AMOUNT AND TYPE OF OE

**Table 3-1**

**Types of OE/UXO and OE Scrap Found in the Charlie Area**

Item Description	Depth (inches)	Target Type	FWS Area Located
<b>OE/UXO Items</b>			(these are listed as FWS-XX)
Projectile, 155mm, AP/HE	0	UXO	1H <u>b</u>
Rocket, 2.36in, M6A3	1	UXO	1H <u>c</u>
Mortar, 60mm, HE, M49A2	9	UXO	1H <u>a</u> ,2H
Projectile, 75mm, shrapnel	12	UXO	1H <u>a</u> ,1H <u>b</u> ,2H
Projectile, 37mm HE, MkII	5	UXO	3H
Mortar, 81mm, HE, M43	6	UXO	1H <u>a</u> ,2H
Projectile, 155mm, shrapnel	1	UXO	1H <u>a</u> ,1H <u>b</u>
<b>OE Scrap:</b>			
Projectile, 37mm, fragmentation	2	OE Scrap	1H <u>a</u> ,3H,4H
Fuze, M1907 PTTF, functioned	2	OE Scrap	1,2,3,4,5H
Projectile fragment, 155mm, HE	2	OE Scrap	1H <u>b</u> ,3H
Fuze fragment, 75mm	4	OE Scrap	1,2,3,4,5H
Projectile shrapnel rounds, 75mm, empty	0	OE Scrap	1,2,3,4,5H
Projectile pusher plates (75mm,105mm,155mm)	3	OE Scrap	1,2,3,4,5H
Mortar tail boom and pieces, 81mm	3	OE Scrap	1H <u>a</u> ,2H
Mortar fragment, 4.2in	4	OE Scrap	1H <u>a</u> ,2H
Shrouded rocket tail fin, 3.5in	1	OE Scrap	3H
Mortar fragment, 81mm	3	OE Scrap	1H <u>a</u> ,2H,3H,5H
Mortar fragment, 60mm	3	OE Scrap	1H <u>a</u> ,2H
Projectile fragment, 57mm	4	OE Scrap	1H

## 3.2 MOST PROBABLE MUNITION

3.2.1 The most probable munition (MPM) will be established by area. Within this ESS, the roads, firebreaks and trails within the five areas recommended for a clearance alternative will be cleared. There are five separate MPMs within this removal, and five different minimum separation distance (MSD). The MSD will also be used as the daily Exclusion Zone (EZ) for removal activities. The calculation sheets for the established MPMs are included as Appendix A. The seven areas and their prospective MPM and MSD are:

<b>Table 3-2: MPM &amp; MSD</b>		
<b>Sector</b>	<b>MPM</b>	<b>MSD</b>
FWS-1Ha	<u>81mm HE M43</u>	<u>1395ft</u>
FWS-1Hb	<u>155mm HE M107</u>	<u>2577ft</u>
FWS-1Hc	<u>2.36" Rocket, HEAT (case only)</u>	<u>809ft</u>
FWS-2H	81mm HE M43	1395ft
FWS-3H	155mm HE M107	2577ft
FWS-4H	60mm HE M49	1080ft
FWS-5H	105mm HE M1	1939 ft

**3.2.2 Amendment 1 to this ESS Separates the FWS-1H Area into three separate sectors; FWS-1Ha, FWS-1Hb, FWS-1Hc which can be viewed on Figure 12-4.**

#### **4.0 START DATE**

4.1 Site preparation activities including surveying and vegetation removal will commence after approval of the Site Specific Work Plan, which is estimated to be during August 2003. The OE Removal portion will not begin prior to approval of this document during September or October 2003.

#### **6.0 CLEARANCE TECHNIQUES**

##### **6.2 RECOVERY AND DISPOSAL**

6.2.3 Since the entire Alpha, Bravo and Charlie areas are securely gated, there should be only occasional instances where the disposal or venting operations will have an exclusion zone (EZ) that extends outside the secured area. This will occur along the northern boundary of the Charlie area. If for any reason the EZ should extend into an area that is not secured or is inhabited, DDESB approved engineering controls (e.g. sandbags) will be used, or the area will be evacuated prior to demolition operations being performed. For all intrusive operations, FWENC will use the Range to No More Than 1 Hazardous Fragment per 600 square feet (1/600) distance to reduce the EZ to this lessened, but approved distance. If for any reason this method cannot be used, a Miniature Open Front Barricade (MOFB) or Open Front Barricade (OFB), as appropriate, will be used for all excavations made as part of intrusive operations. For buildings on Fort McClellan which are still within the 1/600 distance, we will schedule our intrusive operations to occur on days when the facility is not occupied. This scheduling will occur with assistance from both USAESCH and the Ft. McClellan Transition Force. There are no inhabited buildings off Fort McClellan which fall within the reduced 1/600 distance. On Figure 12-4, the EZ for the roads marked in black include areas that are off post and/or are inhabited. Clearance of these roads will require the use of appropriate engineering controls, an approved 1/600 ruling or evacuation of personnel.

## 12.0 MAPS

### 12.3 Q-D MAP

12.3.1 Figure 12-3 is the FWS Area Q-D Arcs Overview. Each OE Area covered under this submission, as well as the magazines for storage of demolition material, and the scrap holding area are annotated on this map. The FWS Roads, Fire Breaks, and High Use Areas exclusion zone is marked and the inhabited buildings within the exclusion zone are shown on Figure 12-3. Amendment 1 divides sector FWS-1H into 3 subsectors (FWS-1Ha, FWS-1Hb, and FWS-1Hc) each with its own MPM and corresponding Q-D as shown in Table 3-2.

### 12.4 Q-D Map

12.4.1 Figure 12-4 is the FWS Area Q-D Arcs Overview for Amendment 1. It shows sector FWS-1H as it has been re-sectored.

